



ATTORNEY DOCKET NO.: 2001180-0077(HU 2060-02 US NATL)  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Schreiber, *et al.* Examiner: TBA  
Serial No.: 10/649,532 Art Unit: 1626  
Filing Date: August 27, 2003  
Title: DIHYDROPYRANCARBOXAMIDES AND USES THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**  
**(37 CFR § 3.73(b))**

The inventors of the above-referenced United States patent application have assigned their entire right, title, and interest in the inventions disclosed therein according to the following table:

Inventor	Assignee
Stuart L. Schreiber	Howard Hughes Medical Institute and President and Fellows of Harvard College
Robert A. Stavenger	President and Fellows of Harvard College
Timothy J. Mitchison	President and Fellows of Harvard College
Zoltan Maliga	President and Fellows of Harvard College

In addition, Stuart L. Schreiber, as Agent for Howard Hughes Medical Institute (HHMI) has assigned HHMI's entire right, title and interest in the invention disclosed in the title Application to President and Fellows of Harvard College.

Thus, the Assignee of the inventors' entire right, title, and interest is:

**President and Fellows of Harvard College**

According to 37 CFR § 3.73(b), the Assignee is entitled to take action relating to the application in the Patent and Trademark Office if the Assignee establishes ownership to the satisfaction of the Commissioner.

Ownership by the assignee is established as follows:

documents already recorded in the PTO on \_\_\_\_\_.

Reel \_\_\_\_\_ Frame \_\_\_\_\_; and

documents separately submitted for recordal to the PTO (a copy of these documents is attached).

**STATEMENT**

I, person(s) authorized to sign on behalf of the Assignee, have reviewed the evidentiary documents referred to above and certify that, to the best of my knowledge and belief, title is mine/ours as Assignee who seeks to take further action.

Name/Title	Assignee	Date
Signature: <u>Robert Benson</u> Name: <u>Robert Benson</u> Title: <u>Associate Director, Licensing</u>	President and Fellows of Harvard College 17 Quincy Street Cambridge, MA 02138	<u>March 14, 2005</u>

*Copy*

A S S I G N M E N T

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned **Stuart L. Schreiber**, of Boston, Massachusetts hereby

Sells, assigns and transfers to the **Howard Hughes Medical Institute**, having a place of business at **4000 Jones Bridge Road, Chevy Chase, MD 20815-6789**, its successors, assigns and legal representatives, all hereinafter referred to as the **ASSIGNEE**, his entire right, title and interest for the United States and all foreign countries; in and to any and all inventions which are disclosed in the application for United States Letters Patent entitled **"Dihydropyrancarboxamides and Uses Thereof"** filed **August 27, 2003**, and given serial number **10/649,532**, in and to said application and all divisional, continuing, substitute, renewal, reissue reexamination or other application for Letters Patent which has been or shall be filed in the United States or any foreign country on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agrees that said **ASSIGNEE** may apply for and receive Letters Patent for said inventions in its own name and when requested, without charge to but at the expense of said **ASSIGNEE**, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reissue, reexamination and all other patent applications on any and all said inventions; by executing all rightful oaths, assignments, powers of attorney and other papers; by communicating to said **ASSIGNEE** all facts known to him relating to said inventions and the history thereof, and generally by doing everything possible which said **ASSIGNEE** shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said **ASSIGNEE**.

Hereby requests the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said **ASSIGNEE**.

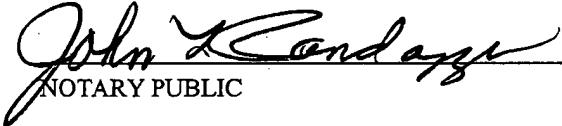
Covenants with said **ASSIGNEE** that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by him, and that full right to convey the same as herein expressed is possessed by him.

IN WITNESS WHEREOF, I hereto set my hand and seal at  
218 this 218 day of July, 2004.

  
Name: **Stuart L. Schreiber**

STATE OF Massachusetts SS.  
COUNTY OF Middlesex

Before me this 219 day of July, 2004, personally appeared **Stuart L. Schreiber** known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

  
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

**JOHN L. RANDAZZO**  
**NOTARY PUBLIC**  
**My Commission Expires April 30, 2010**

COPY

A S S I G N M E N T

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned **Stuart L. Schreiber, As Agent for Howard Hughes Medical Institute (HHMI)**, hereby

Sells, assigns and transfers to **President and Fellows of Harvard College**, having a place of business at **17 Quincy Street, Cambridge, MA 02138**, its successors, assigns and legal representatives, all hereinafter referred to as the **ASSIGNEE**, HHMI's entire right, title and interest for the United States and all foreign countries; in and to any and all inventions which are disclosed in the application for United States Letters Patent entitled "**Dihydropyrancarboxamides and Uses Thereof**" filed **August 27, 2003**, and given serial number **10/649,532**, in and to said application and all divisional, continuing, substitute, renewal, reissue, reexamination or other application for Letters Patent which has been or shall be filed in the United States or any foreign country on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agrees that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name and when requested, without charge to but at the expense of said ASSIGNEE, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reissue, reexamination and all other patent applications on any and all said inventions; by executing all rightful oaths, assignments, powers of attorney and other papers; by communicating to said ASSIGNEE all facts known to him as Agent for HHMI relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby requests the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenants with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by HHMI, and that full right to convey the same as herein expressed is possessed by HHMI.

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this 2<sup>nd</sup> day of July, 2004.

\_\_\_\_\_  
**Stuart L. Schreiber, for himself  
and as agent for HHMI**

STATE OF Massachusetts  
SS.  
COUNTY OF Middlesex

Before me this 2<sup>nd</sup> day of July, 2004, personally appeared **Stuart L. Schreiber**, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

\_\_\_\_\_  
**John L. Randazzo**  
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

**JOHN L. RANDAZZO**  
NOTARY PUBLIC  
My Commission Expires April 30, 2010

A S S I G N M E N T

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned **Robert A. Stavenger** of Blue Bell, PA; **Timothy J. Mitchison**, of Brookline, MA; and **Zoltan Maliga**, of East Brunswick, NJ, hereby

Sells, assigns and transfers to **President and Fellows of Harvard College**, having a place of business at **17 Quincy Street, Cambridge, MA 02138**, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, his entire right, title and interest for the United States and all foreign countries; in and to any and all inventions which are disclosed in the application for United States Letters Patent entitled "**Dihydropyrancarboxamides and Uses Thereof**" filed **August 27, 2003**, and given serial number **10/649,532**, in and to said application and all divisional, continuing, substitute, renewal, reissue, reexamination or other application for Letters Patent which has been or shall be filed in the United States or any foreign country on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agrees that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name and when requested, without charge to but at the expense of said ASSIGNEE, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reissue, reexamination and all other patent applications on any and all said inventions; by executing all rightful oaths, assignments, powers of attorney and other papers; by communicating to said ASSIGNEE all facts known to him/her relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby requests the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenants with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by him, and that full right to convey the same as herein expressed is possessed by him.

IN WITNESS WHEREOF, I hereto set my hand and seal at Fleet Bank,  
East Norriton PA this 29<sup>th</sup> day of June, 2004.



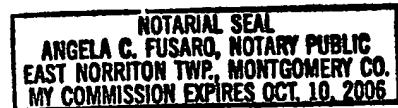
Name: Robert A. Stavenger

STATE OF Pennsylvania ss.  
COUNTY OF Montgomery

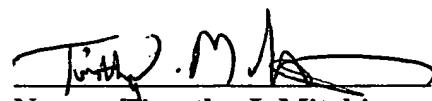
Before me this 29<sup>th</sup> day of JUNE, 2004, personally appeared  
Robert A. Stavenger known to me to be the person whose name is subscribed to the foregoing  
Assignment and acknowledged that he executed the same as his free act and deed for the  
purposes therein contained.

[Notary's Seal Here]

Angela Fusaro  
NOTARY PUBLIC  
My Commission Expires: 10-10-06



IN WITNESS WHEREOF, I hereto set my hand and seal at 1220 on Boston,  
Massachusetts this 14 day of March, 2005.

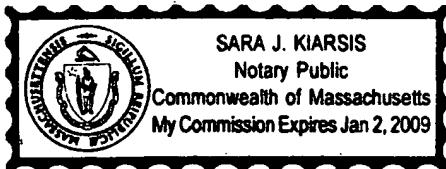
  
Name: Timothy J. Mitchison

STATE OF Massachusetts ss.  
COUNTY OF Suffolk

Before me this 14 day of March, 2005, personally appeared  
**Timothy J. Mitchison** known to me to be the person whose name is subscribed to the foregoing  
Assignment and acknowledged that he executed the same as his free act and deed for the  
purposes therein contained.

[Notary's Seal Here]

  
NOTARY PUBLIC  
My Commission Expires:



**MASSACHUSETTS ALL-PURPOSE ACKNOWLEDGMENT**

Gov. Exec. Ord. #455 (03-13), §5(d)

Commonwealth of Massachusetts

County of Suffolk

} ss.

On this the 14 day of March, 2005, before me,Sara J. Kiarsis

Name of Notary Public

personally appeared Timothy mitchison

Name(s) of Signer(s)

proved to me through satisfactory evidence of identity, which was/were

drivers licence

Description of Evidence of Identity

to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that he/she/they signed it voluntarily for its stated purpose(.)

 as partner(s) for \_\_\_\_\_

Name of Partnership

, a partnership.

 as \_\_\_\_\_ for  
Title of Office

Name of Corporation , a corporation.

 as attorney in fact for \_\_\_\_\_  
Name of Principal Signer

, the principal.

 as \_\_\_\_\_ for \_\_\_\_\_  
Type of CapacityName of Person/Entity , a/the \_\_\_\_\_  
Type of EntitySara J. KiarsisSignature of Notary Public  
Printed Name of Notary

Place Notary Seal and/or Any Stamp Above

**OPTIONAL**

Although the information in this section is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

Right Thumbprint  
of Signer

Top of thumb here

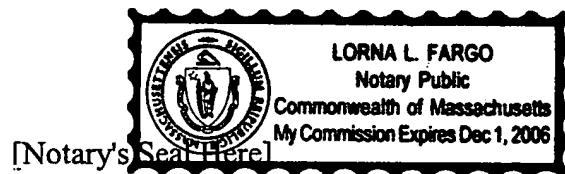
IN WITNESS WHEREOF, I hereto set my hand and seal at Boston,  
Massachusetts this 12<sup>th</sup> day of May, 2004.



Name: Zoltan Maliga

STATE OF Massachusetts SS.  
COUNTY OF Suffolk

Before me this 12<sup>th</sup> day of May, 2004, personally appeared **Zoltan Maliga** known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



LORNA L. FARGO  
NOTARY PUBLIC  
My Commission Expires: 12-01-06



**ATTORNEY DOCKET NO.: 2001180-0077(HU 2060-02 US NATL)  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Schreiber, et al. Examiner: TBA  
Serial No.: 10/649,532 Art Unit: 1626  
Filing Date: August 27, 2003  
Title: DIHYDROPYRANCARBOXAMIDES AND USES THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**APPOINTMENT OF ATTORNEY**

The undersigned hereby appoints:

The attorneys/agents associated with **Customer No. 24280** as its attorneys and agents for prosecution of matters relating to the above-identified patent application and to conduct all business in the United States Patent and Trademark Office.

All correspondence should be sent to:

Patent Department  
Choate, Hall & Stewart  
Exchange Place, 53 State Street,  
Boston, Massachusetts 02109

Respectfully submitted,

Robert Benson

Name Robert Benson

Title Associate Director Licensing

Dated: March 14, 2005

On behalf of President and Fellows of  
Harvard College

O I P E

APR 08 2005

ATTORNEY DOCKET NO.: 2001180-0077(HU 2060-02 US NATL)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: *Schreiber, et al.* Examiner: TBA  
Serial No.: 10/649,532 Art Unit: 1626  
Filing Date: August 27, 2003  
Title: DIHYDROPYRANCARBOXAMIDES AND USES THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**WRITTEN ASSERTION OF SMALL ENTITY STATUS**

**UNDER 37 CFR §1.27(a)(3)**

**NON-PROFIT ORGANIZATION**

The undersigned hereby asserts entitlement to small entity status as a non-profit organization under 37 CFR §1.27(a)(3) on behalf of **President and Fellows of Harvard College**.

This assertion is made on the ground that **President and Fellows of Harvard College** is either:

- (a) a university or other institution of higher education located in any country;
- (b) an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1986 (26 USC §501(c)(3)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 USC §501(a));
- (c) any nonprofit scientific or educational organization qualified under a nonprofit organization statute of a state of this country (35 USC §201(i)); or
- (d) any nonprofit organization, located in a foreign country, that would qualify as a nonprofit organization under paragraphs (b) or (c) above if it were located in this country,

and *has not* assigned, granted, conveyed, or licensed, and is under no obligation under contract or law to assign, grant, convey, or license, any rights in the above-referenced patent application to any party who does not qualify for small entity status either as a person, a small business concern, or a nonprofit organization under 37 CFR §1.27.

Respectfully Submitted,

Name:

Title:

Date:

1/6/05



-1Pd

ATTORNEY DOCKET NO.: 2001180-0077(HU 2060-02 US NATL)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Schreiber, et al. Examiner: Solola, Taofiq A.  
Serial No.: 10/649,532 Art Unit: 1626  
Filing Date: August 27, 2003  
Title: DIHYDROPYRANCARBOXAMIDES AND USES THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**TRANSMITTAL**

Enclosed please find the following documents for the above-referenced patent application:

1. Executed statement Establishing Right of Assignee to Take Action (37 CFR § 3.73(b))  
(2 pages) with copy of three (3) Assignments as forwarded under separate cover for recording with the U.S. Patent and Trademark Office (9 pages);
2. Executed Appointment of Attorney (1 page);
3. Executed Written Assertion of Small Entity Status Under 37 CFR § 1.27(a)(3) (1 page); and
4. Return postcard.

Please charge any additional fees or credit any overpayments to our Deposit Account  
No. 03-1721.

Respectfully submitted,  
CHOATE, HALL & STEWART LLP

  
Nadège M. Lagneau, Ph.D.  
Reg. No. 51,908

PATENT GROUP  
CHOATE, HALL & STEWART LLP  
Exchange Place  
53 State Street  
Boston, MA 02109  
Telephone: (617) 248-5000  
Facsimile: (617) 248-4000

<b>Certificate of Mailing</b>	
I certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
<u>April 6, 2005</u> Date	<u>Kathy Hart Gagnon</u> Signature
Kathy Hart Gagnon	
Typed or Printed Name of person signing certificate	